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› Waterdrop X16-Alkaline Tankless Reverse Osmosis System User Manual

Waterdrop WD-X16

Waterdrop X16-Alkaline Tankless Reverse Osmosis System User Manual

Model: WD-X16

1. INTRODUCTION

Thank you for choosing the Waterdrop X16-Alkaline Tankless Reverse Osmosis System. This advanced water filtration system is designed to provide you with clean, healthy, and great-tasting water directly from your tap. Featuring 11-stage filtration, a 1600 GPD capacity, and alkaline mineralization, it ensures superior water quality and convenience. This manual provides essential information for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system.



Figure 1.1: Waterdrop X16-Alkaline Tankless Reverse Osmosis System.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the system. Failure to follow these instructions may result in property damage, injury, or death.

- Ensure all connections are secure to prevent leaks. Turn off the main water supply before installation or maintenance.
- The system requires a standard electrical outlet. Do not use extension cords or adapters. Ensure the power source

matches the system's requirements.

- Keep the system away from direct sunlight, heat sources, and freezing temperatures.
- Do not attempt to repair or modify the system yourself. Contact qualified personnel for service.
- This system is designed for indoor use with potable water only.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- Waterdrop X16-Alkaline RO System Main Unit
- Smart Digital Faucet
- Pre-sediment & Carbon Block Filter (WD-F2)
- Alkaline Mineralized Filter (WD-F1A)
- Reverse Osmosis Membrane Filter (WD-X16-F3)
- Tubing and Connectors
- Power Adapter
- Drain Saddle
- User Manual (this document)

4. SETUP AND INSTALLATION

The Waterdrop X16-Alkaline system is designed for under-sink installation. Ensure you have adequate space and access to a power outlet and water lines.

4.1 Pre-Installation Checklist

- Confirm available under-sink space: The main unit dimensions are approximately 18.2"L x 6.25"W x 16.72"H.
- Verify electrical outlet availability under the sink.
- If using well water, ensure a pre-filtration system is in place as direct well water use is not recommended.
- You will need to drill two holes for installation: one for the RO faucet and another for the drain pipe connection.

4.2 Installation Steps Overview

1. **Prepare the Installation Area:** Clear the cabinet under your sink. Turn off the cold water supply.
2. **Install the Faucet:** Drill a hole (if necessary) in your countertop or sink for the smart digital faucet. Secure the faucet in place.
3. **Connect Water Supply:** Install the feed water adapter to your cold water line.
4. **Install Drain Saddle:** Attach the drain saddle to the drain pipe under your sink.
5. **Connect Tubing:** Connect the appropriate tubing from the main unit to the faucet, water supply, and drain saddle.
6. **Install Filters:** Insert the pre-sediment & carbon block filter, alkaline mineralized filter, and RO membrane filter into their designated slots in the main unit.
7. **Connect Power:** Plug the power adapter into the main unit and then into a grounded electrical outlet.
8. **Flush the System:** Turn on the water supply and follow the initial flushing procedure outlined in the operating instructions to prepare the system for use.

Pure Elegance, Kitchen Perfection



Elegant
look



Express
setup



Easy
installation



Tankless
design

Figure 4.1: The compact, tankless design allows for easy under-sink installation.



Figure 4.2: Product dimensions and installation considerations.

4.3 Installation Video Guide

For a detailed visual guide on the installation process, please refer to the official Waterdrop installation video:

Your browser does not support the video tag.

Video 4.1: Official Installation Guide for Waterdrop X16 Undersink RO System. This video provides step-by-step instructions for setting up

5. OPERATING INSTRUCTIONS

Your Waterdrop X16-Alkaline system is designed for user-friendly operation.

5.1 Initial Flush

After installation, it is crucial to flush the system to remove any carbon fines and air from the new filters. Run water through the faucet for at least 30 minutes or until the water runs clear and free of air bubbles. Discard this initial water.

5.2 Using the Smart Digital Faucet

The smart digital faucet provides real-time information and control:

- **Adjustable Volume:** Use the control knob on the faucet to select the desired water volume. The system will automatically dispense the set amount and stop.
- **TDS & Filter Life Monitor:** The digital display shows the Total Dissolved Solids (TDS) level of the purified water and indicates the remaining life of your filters. This helps you monitor water quality and know when to replace filters.
- **Auto-sensing LED Function:** The integrated LED light provides visual confirmation of water safety.

Purity, One Touch Away

Live smarter with original quantified digital faucet



Adjustable Volume

Savor freedom: water waits for you

TDS & Filter Life Monitor

Effortlessly enjoy pure water



Figure 5.1: The smart digital faucet with adjustable volume and monitoring features.

5.3 Water Dispensing and Quality

- **High Flow Rate:** With a 1600 GPD (Gallons Per Day) capacity, the system delivers water rapidly, filling a 6oz cup in approximately 2 seconds.
- **Alkaline Mineral Boost:** The system utilizes PCC mineralization technology to add beneficial minerals like calcium and magnesium, adjusting the pH to an ideal $7.5\pm$ for a smooth taste and health benefits.
- **11-Stage Filtration:** The reinforced $0.0001\mu\text{m}$ RO membrane and multi-stage filtration effectively reduce TDS, PFOA, PFOS, Chlorine, Fluoride, Arsenic, Lead, and other harmful substances.

Pure Pleasure Delivered

1600G Max Capacity



2s One cup



10s Fill up a teapot



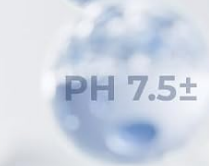
20s Fill up a stockpot

*A cup has a capacity of 6oz, a teapot has a capacity of 32oz, and a stockpot has a capacity of 64oz.

*Maximum capacity is within the Waterdrop RO system range.

Figure 5.2: Experience rapid water dispensing with the 1600 GPD capacity.

Boost Your Health, Balance Your Life



Stronger bones



Enhance flavor



**Microelement
supplement**

* The ph values vary depending on the actual water quality.

Figure 5.3: The system boosts water with healthy alkaline minerals.

5.4 Energy Saving Mode

The system features an energy-saving mode that reduces power consumption by 40% and minimizes operational noise. This contributes to a more sustainable and quiet home environment.

Less Waste, Sustainable Living



3:1 purified water ratio

Save **1200%** water



Energy-saving mode

Save **40%** power & reduce noise



Sustainable living

Save **8000** plastic bottles per year



Carbon neutral

Product

ClimatePartner.com/23893-2305-1001



Figure 5.4: The system promotes sustainable living with efficient water and energy use.

5.5 Product Overview Video

For a general overview of the Waterdrop X Series Undersink Reverse Osmosis Water System, watch this video:

Your browser does not support the video tag.

Video 5.1: Waterdrop X Series Undersink Reverse Osmosis Water System Overview. This video highlights key features and benefits of the system.

6. MAINTENANCE

Regular maintenance ensures the continued high performance and longevity of your Waterdrop RO system.

6.1 Filter Replacement

The smart digital faucet will indicate when filters need replacement. Filter lifespan varies based on water quality and usage. The system features an advanced integrated waterway that supports automatic water cut-off when filters are replaced, simplifying the process and preventing leaks.

- **WD-F2 (Pre-sediment & Carbon Block Filter):** Typically replaced every 6 months.

- **WD-F1A (Alkaline Mineralized Filter):** Typically replaced every 12 months.
- **WD-X16-F3 (RO Membrane Filter):** Typically replaced every 24 months.

Always use genuine Waterdrop replacement filters to ensure optimal performance and system compatibility. Refer to the filter replacement guide for detailed instructions.



Figure 6.1: Correct filter replacements for the X-series reverse osmosis system.

7. TROUBLESHOOTING

If you encounter issues with your Waterdrop X16-Alkaline system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No water flow or very slow flow	Water supply turned off Clogged filters Low water pressure Air in the system	Ensure main water supply is on. Check filter life indicator on faucet; replace filters if needed. Verify household water pressure. Flush the system to remove air.
Water tastes unusual or bad	New filters not properly flushed Expired filters Contamination in lines	Perform a thorough system flush. Replace filters, especially the carbon block filter. Ensure all connections are clean and secure.
System is leaking	Loose connections Improperly installed filters Damaged O-rings or components	Tighten all connections. Re-install filters, ensuring they are seated correctly. Inspect for visible damage; contact support if components are faulty.
Digital display not working	No power Loose connection to faucet	Check power adapter and outlet. Ensure the faucet cable is securely connected to the main unit.

If the problem persists after attempting these solutions, please contact Waterdrop Customer Support.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Name	WD-X16-Alkaline
Product Dimensions	18.2"L x 6.25"W x 16.72"H
Item Weight	39.5 Pounds
Installation Type	Under Sink
Power Source	Corded Electric
Maximum Flow Rate	1.2 Gallons Per Minute
Lower Temperature Rating	41 Degrees Fahrenheit
Upper Temperature Rating	100 Degrees Fahrenheit
Certification	NSF/ANSI 42 & 58 & 372 Certified
Pure to Drain Ratio	3:1

9. WARRANTY AND SUPPORT

Waterdrop is committed to providing excellent products and customer service. For warranty information, technical support, or replacement parts, please contact Waterdrop Customer Service.

- **Online Customer Service:** Available 24/7 for inquiries and assistance.
- **Extended Service Time:** Waterdrop offers extended service options.
- **Reliable Quality:** Products are backed by Waterdrop's commitment to quality.

You can find more information and contact details on the official Waterdrop website or through your purchase platform.

Select correct filter replacement for

X-series reverse osmosis system

WD-X12-Basic

1200 GPD



- WD-F1G
- WD-F2
- WD-X12-F3

WD-X12-PRO

1200 GPD



- WD-F1A
- WD-F2-PRO
- WD-X12-F3

Alkaline Mineral

Dual flow water

WD-X12-Alkaline

1200 GPD



- WD-F1A
- WD-F2
- WD-X12-F3

WD-X16-Alkaline

1600 GPD



- WD-F1A
- WD-F2
- WD-X16-F3

Alkaline Mineral

Please note

Please select correct replacement filter to avoid the risk of blockage.

Figure 9.1: Waterdrop's commitment to exceptional service.

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For more information, visit [Waterdrop Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question